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Ravi Kanth V Kothuri, Siva Ravada, Daniel Abugov

 June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data**

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Spatial indexing has been one of the active focus areas in recent database research. Several variants of Quadtree and R-tree indexes have been proposed in database literature. In this paper, we first describe briefly our implementation of Quadtree and R-tree index structures and related optimizations in Oracle Spatial. We then examine the relative merits of two structures as implemented in Oracle Spatial and compare their performance for different types of queries and other operations. Finally, ...

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Chengyu Sun, Divyakant Agrawal, Amr El Abbadi

 June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on Management of data**
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Spatial database operations are typically performed in two steps. In the *filtering* step, indexes and the minimum bounding rectangles (MBRs) of the objects are used to quickly determine a set of candidate objects, and in the *refinement* step, the actual geometries of the objects are retrieved and compared to the query geometry or each other. Because of the complexity of the computational geometry algorithms involved, the CPU cost of the refinement step is usually the dominant cost of ...

**Keywords:** hardware acceleration, spatial join, spatial selection

### 3 [Designing and accessing scientific digital libraries: On querying geospatial and georeferenced metadata resources in G-portal](#)

Zehua Liu, Ee-Peng Lim, Wee-Keong Ng, Dion H. Goh

 May 2003 **Proceedings of the 3rd ACM/IEEE-CS joint conference on Digital libraries**
Full text available: [pdf\(92.05 KB\)](#)
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G-Portal is a web portal system providing a range of digital library services to access geospatial and georeferenced resources on the Web. Among them are the storage and query subsystems that provide a central repository of metadata resources organized under different projects. In GPortal, all metadata resources are represented in XML (Extensible Markup Language) and they are compliant to some resource schemas defined by their

creators. The resource schemas are extended versions of a basic resou ...

#### 4 GML, Interoperability, and Standards: A specification of a spatial query language over GML

J. E. Córcoles, P. González

November 2001 **Proceedings of the 9th ACM international symposium on Advances in geographic information systems**

Full text available:  pdf(1.04 MB)

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OGC (OpenGIS Consortium) is contributing with a XML specification to the representation of geographic information (called GML 2.0 - Geographical Markup Language) [13]. GML allows the exchange of geographic information in the Web. The models based on XML benefit the interoperability, and thus GML allows the exchange of geographic information on the Web. However, there is another important advantage to the models based on XML (GML, ARCHEOGIS [4]): it may be queried. In this paper, a query language ...

**Keywords:** GML, XML, interoperability, query language

#### 5 A foundation for representing and querying moving objects

Ralf Hartmut Güting, Michael H. Böhlen, Martin Erwig, Christian S. Jensen, Nikos A. Lorentzos, Markus Schneider, Michalis Vazirgiannis

March 2000 **ACM Transactions on Database Systems (TODS)**, Volume 25 Issue 1

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Spatio-temporal databases deal with geometries changing over time. The goal of our work is to provide a DBMS data model and query language capable of handling such time-dependent geometries, including those changing continuously that describe moving objects. Two fundamental abstractions are moving point and moving region, describing objects for which only the time-dependent position, or position and extent, respectively, are of interest. We ...

**Keywords:** abstract data types, algebra, moving objects, moving point, moving region, spatio-temporal data types, spatio-temporal databases

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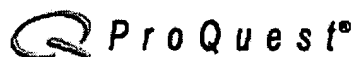
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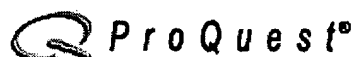
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